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**42 A comparison of mobile agent and client-server paradigms for information retrieval tasks in virtual enterprises**

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48 **TransWeb: a framework for development of transparent load-balanced  
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*Choudhary, A.; Prabhakar, T.V.;*  
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49 **Extracting information from semi-structured Internet sources**

*Jong-Seok Jeong; Dong-Ik Oh;*

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**50 An analysis of a CORBA-based approach to accessing geospatial information via the Internet**

*Needham, D.; Wilson, R.; Shaw, K.;*

Performance, Computing, and Communications, 2001. IEEE International Conference, 4-6 April 2001

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- 1**  Applications: Dynamic coordination of information management services 98%  
for processing dynamic web content  
In-Young Ko , Ke-Thia Yao , Robert Neches  
**Proceedings of the eleventh international conference on World Wide Web** May 2002

Dynamic Web content provides us with time-sensitive and continuously changing data. To glean up-to-date information, users need to regularly browse, collect and analyze this Web content. Without proper tool support this information management task is tedious, time-consuming and error prone, especially when the quantity of the dynamic Web content is large, when many information management services are needed to analyze it, and when underlying services/network are not completely reliable. This pap ...

- 2**  A layered architecture for querying dynamic Web content 91%  
Hasan Davulcu , Juliana Freire , Michael Kifer , I. V. Ramakrishnan  
**ACM SIGMOD Record , Proceedings of the 1999 ACM SIGMOD international conference on Management of data** June 1999  
Volume 28-Issue 2

The design of webbases, database systems for supporting Web-based applications, is currently an active area of research. In this paper, we propose a 3-year architecture for designing and implementing webbases for querying dynamic Web content(i.e., data that can only be extracted by filling out multiple forms). The lowest layer, virtual physical layer, provides navigation independence by shielding the user from the complexities associated wi ...

- 3**  Industrial sessions: middle-tier caching: Web caching for database applications with Oracle Web Cache 85%  
Jesse Anton , Lawrence Jacobs , Xiang Liu , Jordan Parker , Zheng Zeng , Tie Zhong

**Proceedings of the 2002 ACM SIGMOD international conference on Management of data** June 2002

We discuss several important issues specific to Web caching for content dynamically generated from database applications. We present the techniques employed by Oracle Web Cache to address these issues. They include: content disambiguation based on information in addition to the URL, transparent session management, partial-page caching for personalization, and broad-scope invalidation with performance assurance heuristics.

**4** Activeweb: XML-based active rules for web view derivations and access control 85%



Hiddenari Kiyomitsu , Atsunori Takeuchi , Katsumi Tanaka

**Australian Computer Science Communications** January 2001

Volume 23 Issue 6

In this paper, we propose an idea of using XML-based active rules for deriving Web views and for defining access control by user access behaviors. The major objective of the proposed method is to reflect author(creator)'s intention about his/her Web data and its link structures. In our *ActiveWeb*, the view of a Web page including its hyperlinks is changed according to each user's browsing situation including access history or the aggregated information about all users' access histories. In ...

**5** The state of the art in locally distributed Web-server systems 84%



Valeria Cardellini , Emiliano Casalicchio , Michele Colajanni , Philip S. Yu

**ACM Computing Surveys (CSUR)** June 2002

Volume 34 Issue 2

The overall increase in traffic on the World Wide Web is augmenting user-perceived response times from popular Web sites, especially in conjunction with special events. System platforms that do not replicate information content cannot provide the needed scalability to handle large traffic volumes and to match rapid and dramatic changes in the number of clients. The need to improve the performance of Web-based services has produced a variety of novel content delivery architectures. This article w ...

**6** Current research trends in internet servers 82%



K. Kant , Prasant Mohapatra

**ACM SIGMETRICS Performance Evaluation Review** September 2001

Volume 29 Issue 2

**7** Browsing: Visualizing web site comparisons 80%



Bing Liu , Kaidi Zhao , Lan Yi

**Proceedings of the eleventh international conference on World Wide Web** May 2002

The Web is increasingly becoming an important channel for conducting businesses, disseminating information, and communicating with people on a global scale. More and more companies, organizations, and individuals are publishing their information on the Web. With all this information publicly available, naturally companies and individuals want to find useful information from these Web pages. As an example, companies always want to know what their competitors are doing and what products and services ...

**8** LIMP: an interpreted programming language for students, professors and programmers 80%



William Hawkins

**The Journal of Computing in Small Colleges** January 2004

## Volume 19 Issue 3

Based upon an investigation of current interpreted and compiled programming languages, there exists a need for a new language with English-based keywords, looping constructs, functions, data type morphing and arrays. This paper describes a new language focused on these concepts: LIMP. To be useful, this new language is aimed towards users ranging from students to system administrators. LIMP was designed for ease of use and speed. This interpreted language was implemented in the fall of 2002 and ...

**9 XML templates and caching in WASH**

80%



Peter Thiemann

**Proceedings of the ACM SIGPLAN workshop on Haskell** August 2003

Caching of documents is an important concern on the Web. It is a major win in all situations where bandwidth is limited. Unfortunately, the increasing spread of dynamically generated documents seriously hampers traditional caching techniques in browsers and on proxy servers. WASH/CGI is a Haskell-based domain specific language for creating interactive Web applications. The Web pages generated by a WASH/CGI application are highly dynamic and cannot be cached with traditional means. We show how to i ...

**10 CDNs and caching: Evaluating a new approach to strong web cache consistency with snapshots of collected content**

80%



Mikhail Mikhailov , Craig E. Wills

**Proceedings of the twelfth international conference on World Wide Web** May 2003

The problem of Web cache consistency continues to be an important one. Current Web caches use heuristic-based policies for determining the freshness of cached objects, often forcing content providers to unnecessarily mark their content as uncacheable simply to retain control over it. Server-driven invalidation has been proposed as a mechanism for providing strong cache consistency for Web objects, but it requires servers to maintain per-client state even for infrequently changing objects. We pro ...

**11 Dynamic services and analysis: Engineering and hosting adaptive freshness-sensitive web applications on data centers**

80%



Wen-Syan Li , Oliver Po , Wang-Pin Hsiung , K. Selçuk Candan , Divyakant Agrawal

**Proceedings of the twelfth international conference on World Wide Web** May 2003

Wide-area database replication technologies and the availability of content delivery networks allow Web applications to be hosted and served from powerful data centers. This form of application support requires a complete Web application suite to be distributed along with the database replicas. A major advantage of this approach is that dynamic content is served from locations closer to users, leading into reduced network latency and fast response times. However, this is achieved at the expense ...

**12 Consistency and replication: Application specific data replication for edge services**

80%



Lei Gao , Mike Dahlin , Amol Nayate , Jiandan Zheng , Arun Iyengar

**Proceedings of the twelfth international conference on World Wide Web** May 2003

The emerging edge services architecture promises to improve the availability and performance of web services by replicating servers at geographically distributed sites. A key challenge in such systems is data replication and consistency so that edge server code can manipulate shared data without incurring the availability and performance penalties that would be incurred by accessing a traditional centralized database. This paper explores using a distributed object architecture to build an edge s ...

**13 Integrating and customizing heterogeneous e-commerce applications** 80%

Anat Eyal , Tova Milo

**The VLDB Journal – The International Journal on Very Large Data Bases** August 2001

Volume 10 Issue 1

A broad spectrum of electronic commerce applications is currently available on the Web, providing services in almost any area one can think of. As the number and variety of such applications grow, more business opportunities emerge for providing new services based on the integration and customization of existing applications. (Web shopping malls and support for comparative shopping are just a couple of examples.) Unfortunately, the diversity of applications in each specific domain and the dispar ...

**14 Affinity-based management of main memory database clusters** 80%

Minwen Ji

**ACM Transactions on Internet Technology (TOIT)** November 2002

Volume 2 Issue 4

We study management strategies for main memory database clusters that are interposed between Internet applications and back-end databases as content caches. The task of management is to allocate data across individual cache databases and to route queries to the appropriate databases for execution. The goal is to maximize effective cache capacity and to minimize synchronization cost. We propose an affinity-based management system for main memory database cLUsters (*ALBUM*). *ALBUM* executes ea ...

**15 Web services and performance evaluation: Collecting hidden weeb** 80%

pages for data extraction

Juliano Palmieri Lage , Altigran S. da Silva , Paulo B. Golgher , Alberto H. F. Laender

**Proceedings of the fourth international workshop on Web information and data management** November 2002

As the Web grows, more and more data has become available under dynamic forms of publication, such as a legacy database accessed by an HTML form (the so called Hidden Web). In situations such as this, integration of this data relies more and more on the fast generation of page fetching agents. As a result, there is an increasing need for tools that can help the user to generate such agents. In this paper, we describe an approach to automatically generating agents to collect hidden Web pages that ...

**16 Engineering web cache consistency** 80%

Jian Yin , Lorenzo Alvisi , Mike Dahlin , Arun Iyengar

**ACM Transactions on Internet Technology (TOIT)** August 2002

Volume 2 Issue 3

Server-driven consistency protocols can reduce read latency and improve data freshness for a given network and server overhead, compared to the traditional consistency protocols that rely on client polling. Server-driven consistency protocols appear particularly attractive for large-scale dynamic Web workloads because dynamically generated data can change rapidly and unpredictably. However, there have been few reports on engineering server-driven consistency for such workloads. This article repo ...

**17 Keynotes: Architecture and design of high volume web sites: (a brief** 80%

history of IBM sport and event web sites)

Paul Dantzig

**Proceedings of the 14th international conference on Software engineering and knowledge engineering** July 2002

Architecting and designing high volume Web sites has changed immensely over the last six years. These changes include the availability of inexpensive Pentium based servers, Linux, Java applications, commodity switches, connection management and caching engines, bandwidth price reductions, content distribution services, and many others. This paper describes the evolution of the best practices within IBM in architecting sites that handle millions of page views per day. Discussed is the transition ...

**18** Industrial sessions: middle-tier caching: Middle-tier database caching 80%  
for e-business

Qiong Luo , Sailesh Krishnamurthy , C. Mohan , Hamid Pirahesh , Honguk Woo , Bruce G. Lindsay , Jeffrey F. Naughton

**Proceedings of the 2002 ACM SIGMOD international conference on Management of data** June 2002

While scaling up to the enormous and growing Internet population with unpredictable usage patterns, E-commerce applications face severe challenges in cost and manageability, especially for database servers that are deployed as those applications' backends in a multi-tier configuration. Middle-tier database caching is one solution to this problem. In this paper, we present a simple extension to the existing federated features in DB2 UDB, which enables a regular DB2 instance to become a DBCache wi ...

**19** Industrial sessions: middle-tier caching: Mid-tier caching: the TimesTen 80%  
approach

The TimesTen Team

**Proceedings of the 2002 ACM SIGMOD international conference on Management of data** June 2002

TimesTen is an in-memory, application-tier data manager that delivers low response time and high throughput. Applications may create tables and manage them exclusively in TimesTen, and they may optionally cache frequently used subsets of a disk-based relational database in TimesTen. Cached tables and tables managed exclusively by TimesTen may coexist in the same database. Queries and updates to the cache are performed by the application through SQL. Applications running on different mid-tier ser ...



**20** A Web Odyssey: from Codd to XML 80%

Victor Vianu

**Proceedings of the twentieth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems** May 2001

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